

### ABSTRACT

Disclosed is both a method and composition for providing a coated low density foam. The coated low density foam includes a low density foam substrate coated with mixture comprising a prepolymer, a monomer, a catalyst and a graft  
5 initiator. The coating is grafted onto a low density foam substrate to provide the low density foam substrate protection from abrasions, tears, scratches, ozone and UV light, while maintaining the flexibility of the foam substrate.